

# Fast Flux Test Facility (FFTF) Project (RL-0042)

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*Interim Storage Cask (ISC) being placed  
on Trailer prior to moving to the 400 Area  
Interim Storage Area*



*Fuel being loaded in the IEM  
Cell.*

## Overview

This section addresses work in Project Baseline Summary RL-0042, *Nuclear Facility Deactivation and Decommissioning, Fast Flux Test Facility Project*.

NOTE: Unless otherwise noted, all information contained herein is as of the end of September 2005.

## Top FY 2005 Accomplishments

**Fuel Storage Facility (FSF) Sodium Drain:** Drained approximately 93,000 gallons of sodium to the Sodium Storage Facility.

- Drilled a 3/4-inch diameter hole through the lower core support structure under approximately 17-ft of molten sodium. Inserted the 60-ft long drain pump assembly to the lower head of the reactor vessel.
- Approximately 62,000 gallons of sodium were drained from the reactor and primary auxiliary systems, completing Tri-Party Agreement milestone M-81-13 ("Complete Reactor and HTS Sodium Drain") nine days early.
- Approximately 31,000 gallons of sodium were drained from the FSF.

**Fuel Offload:** Filled 16 Interim Storage Casks (ISCs) with FFTF spent nuclear fuel and placed in interim storage ahead of schedule.

Disassembled test assembly PO-4, which had leaked during reactor testing, into 169 individual pins.

- One failed pin was identified, and five others were identified as potentially failed; all pins were appropriately packaged for interim storage.

**Voluntary Protection Program:** Successfully completed the DOE Headquarters evaluation of the FFTF Voluntary Protection Program; the review team recommended the project retain "Star" status.

**Safety Performance:** Completed the fiscal year with no OSHA Recordable injuries. At fiscal year end, the project had achieved 1,581 consecutive days since the last lost work day injury of an employee.

## Notable September Accomplishments

**Fuel Offload:** Three ISCs were loaded and placed in the 400 Area Interim Storage Area.

**FSF Sodium Drain:** The transfer of sodium from the FSF to the Sodium Storage Facility (SSF) was completed 29 days ahead of schedule.

## FY 2005 Funds vs. Actuals (\$M)

	FY 2005 Anticipated Funding (with Carryover)	FY 2005 Actuals	Variance
FFTF Project	\$ 45.3	\$ 40.2	\$ 5.1

## FY 2005 Schedule/Cost Performance (\$M)

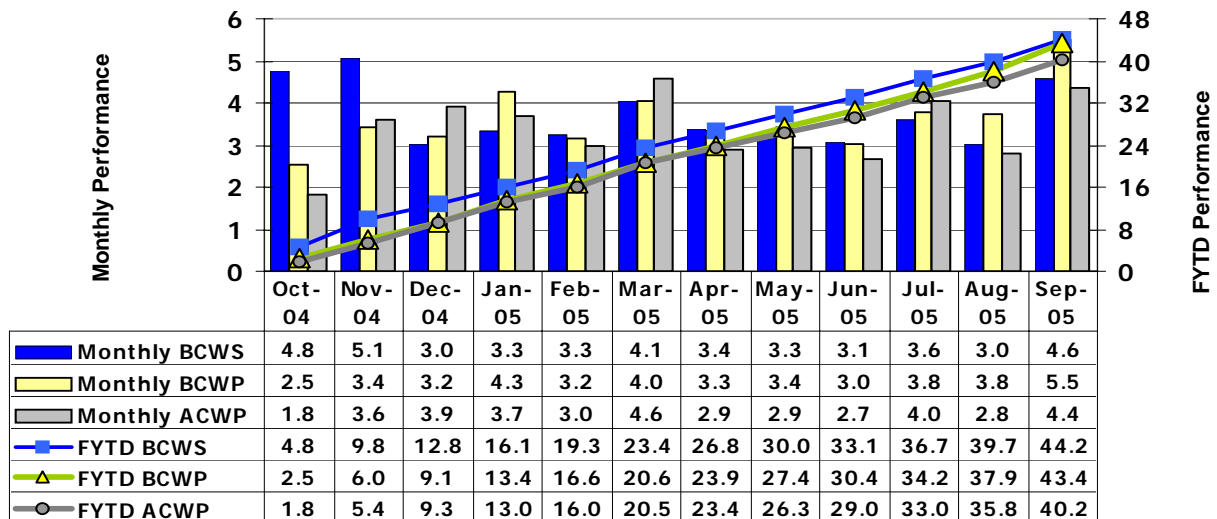
	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance \$	Schedule Variance %	Cost Variance \$	Cost Variance %	Budget At Completion
FFTF Project	\$44.2	\$43.4	\$40.2	-\$0.8	-1.8%	\$3.2	7.5%	\$44.2

Numbers are rounded to the nearest \$0.1M.

**Schedule Performance (-\$0.8M/-1.8%):** The schedule variance is primarily due to fuel disassembly and pin processing delays.

**Cost Performance (+\$3.2M/+7.5%):** The cost variance is due to reassignments and temporary assignments of personnel and an overhead passback credit.

## Performance Analysis FYTD and Monthly (\$M)



## Milestone Achievement

Number	Milestone Title	Type	Due Date	Actual Date	Forecast Date	Status/Comments
RL42-1a3	Complete loading and transferring ten additional Interim Storage Casks	PI	3/31/2005	8/9/2005		Complete / See Note
M-81-13 (BM-81-13)	Complete reactor & HTS sodium drain	TPA	6/30/2005	6/21/2005		Complete
M-81-11 (BM-81-11)	Submit FFTF end point criteria document	TPA	8/31/2005	7/7/2005		Complete
RL 42A-1b	Complete FFTF sodium drain from the reactor vessel and the Fuel Storage Facility vessel	PI	9/30/2005	9/1/2005		Complete
RL 42A-1a1	Process fuel assemblies PO-4, SRF-3, & SRF-4, which require disassembly	PI	11/30/2005		11/30/2005	On schedule / PO-4 completed 7/21/05
RL 42A-1a3	Complete loading of six additional Interim Storage Casks and place in the 400 Area Interim Storage Area	PI	11/30/2005	9/27/2005		Complete
RL 42A-1a2	Process fuel assembly ACN-1, which requires disassembly	PI	3/31/2006		3/31/2006	On schedule
RL 42A-1a4	Complete loading of three additional Interim Storage Casks and place in the 400 Area Interim Storage Area	PI	3/31/2006		3/31/2006	On schedule

**NOTE:** The ninth ISC was loaded and shipped on January 21, 2005. The tenth ISC, which was damaged during manufacturing, was replaced by the vendor in August 2005 and filled on August 9, 2005.